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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

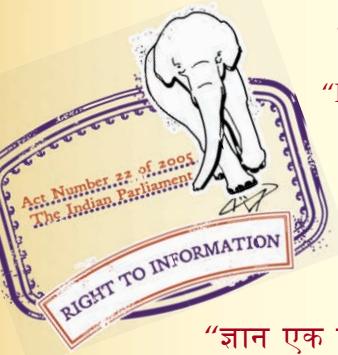
“Step Out From the Old to the New”

IS 5000-OD20 (1978): Dimensions of Semiconductor Devices, Device Outline OD20 [LITD 5: Semiconductor and Other Electronic Components and Devices]

“ज्ञान से एक नये भारत का निर्माण”

Satyanaaranay Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”





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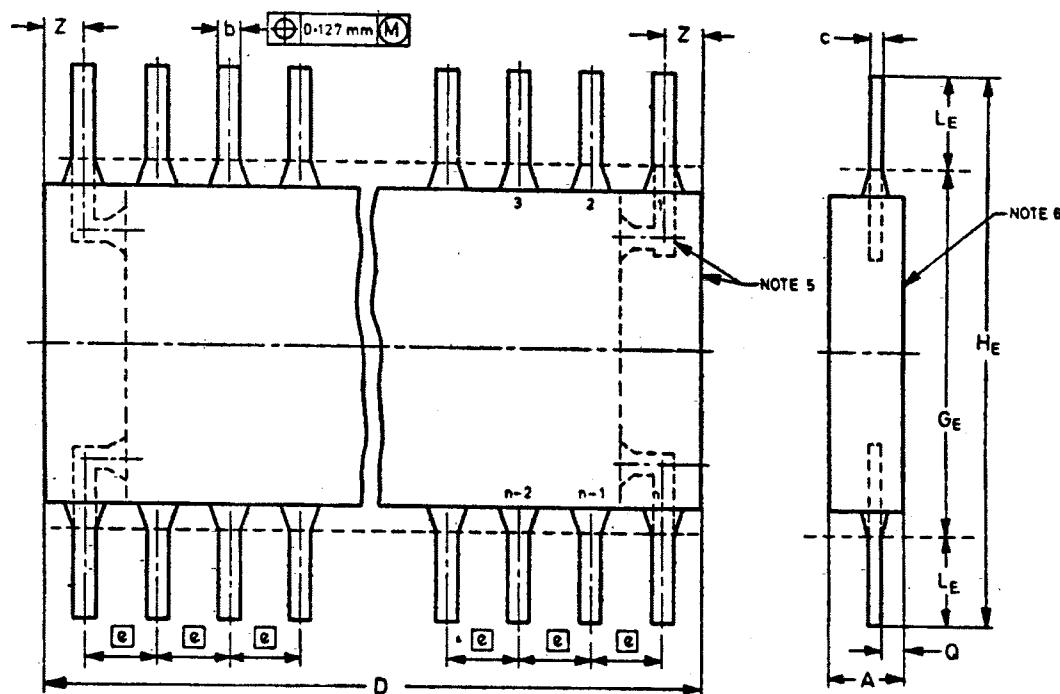
Indian Standard

# DIMENSIONS OF SEMICONDUCTOR DEVICES

## DEVICE OUTLINE OD 20

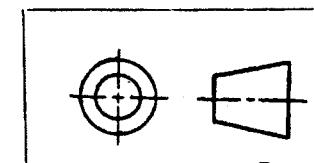
### 1. Dimensions

**Note** — This drawing has been prepared in accordance with IS : 5001 (Part I)-1969 'Guide for the preparation of drawings of semiconductor devices and integrated circuits: Part I Semiconductor devices' and IS : 5001 (Part II)-1973 'Guide for the preparation of drawings of semiconductor devices and integrated circuits: Part II Integrated circuits'.



Reference	Millimetres			Notes
	Min	Nom	Max	
A	—	—	1.8	—
G <sub>E</sub>	—	—	6.4	1
H <sub>E</sub>	11.5	—	13.5	—
L <sub>E</sub>	3.2	—	—	—
Q	0.13	—	0.90	—
b	0.25	—	0.48	2
c	0.07	—	0.16	—
e	—	1.27*	—	2

\*Means true geometrical position.



Reference	Type A	Type B	Type C	Notes
<i>n</i>	10	14	16	3
Z (Max)	1.27 mm	1.27 mm	1.27 mm	4
<i>D</i>	13.97 mm	16.05 mm	21.59 mm	—

**Note 1**— Within this zone, the terminal dimensions are uncontrolled and should not be bent, cropped or used.

**Note 2**— The maximum material condition applies to the positional tolerance of the terminals.

**Note 3**— *n* refers to the total number of terminal positions.

**Note 4**— Dimension Z is specified when a package overhang exists. Overhang shall be less than half pitch or one pitch as the case may be.

**Note 5**— An index mark indicates terminal No. 1. When terminal No. 1 is visible at the end of the package body, it is differentiated for other visible terminals by a tab.

**Note 6**— Coating plane and base plane.

## 2. Rules for Coding — See 8.1 of IS : 5001 ( Part I )-1969.

## 3. Equivalent Designation Code Followed by Other Countries and Organizations

Country or Organization	Designation Code		
	Type A	Type B	Type C
India	OD 20A	OD 20B	OD 20C
IEC	A 52B	A 52D	—
UK	SO-92B	SO-92D	—
France	F 68B	—	—
Netherlands	NT 28B	NT 28D	—